ACC NR. AM5011709

MONOGRAPIT

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Gruzdev, Igor' Aleksandrovich; Kadomskaya, Kira Panteleymonovna; Kuchumov, Leonid
Aleksandrovich; Luginskiy, Yakov Natanovich; Portnoy, Marlen Gdalevich; Sokolov,
Nikolay Ivanovich

66

Using analog computers in power systems; methods for analyzing transient processes (Primeneniye analogovykh vychislitel'nykh mashin v energeticheskikh sistemakh; metody issledovaniy perekhodnykh protesessov) Moscow, Izd-vo "Energiya", 1964. 407 p. illus., biblio. 5,000 copies printed.

TOPIC TAGS: analog computer, electromagnetism, electric engineering, electric power engineering, mathematic model, computer circuit, computer application

PURPOSE AND COVERAGE: This book is concerned with the application of analog computers to the study of electromechanical and electromagnetic transient processes in power systems. It presents methods for mathematical modeling, circuits for special-purpose devices used in general-purpose computer studies, and examples of completed investigations. The book is intended for engineers at scientific research and planning institutes, workers at power systems, and students taking advanced courses in electric power and electromechanics.

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UDC: 681.142.33/.34:620.9

ACC NR, AM5011709 Ch. I. Basic decision elements of analog computers - - 5 Ch. II. Special-purpose units of analog computers - - 62 Ch. III. Equations of the basic elements of an electric system and mathematical modeling - 106 Ch. IV. Modeling of a complex system containing several generators and loads - - 171 Ch. V. Analog-computer solutions of equations of transient processes in excitation systems and controllerator primary motor generators - 209 Ch. VI. Analog computer study of transient processes in power systems - - 260 Ch. VII. Application of analog computers to the calculation of system-generated overvoltage in electric systems - - 346 SUB CODE: 09,13,20/ SURM DATE: 310ct64/ SOV REF: 083/ OTH REF: 001

KUCHINOV F. S.

27796. KUCHUMOV P. S. — Elektrotraktov. III. G. vesil'yeva i A. katkovskiy.
Tekhnika — Molodezhi, 1949, No. 8, C. 3. 15-17

S0: Letoris' Zhurnal'nykh Statey, Vol. 37, 1949

38161. KUCHUMOV, P. S.

Sel'skoye khozyaystvo Sovetskogo Soyuza - samoye peredovoye, vysokomekhanizirovannoye. Mekhanizatsiya trudoyemkikh i tyazhelykh rabot, 1949, no. 12, s. 22-26

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000827110016-5"

KUCHUMOV, P. Hard core of agricultural industry. Tekh.mol. 21 no.12:1-5 D '57. (MIRA 6:11) 1. Zamestitel' ministra sel'skogo khosysystva SSSR. (Machine-tractor stations) (Yarm mechanization)

KUCHULOV . P

EPP, .R92235

LASHINNO-TRALTORNUYE STANTISII INUSTRIAL'NAYA MATERIAL'NO-TEKHNICHESKAYA BAZA KOLKHOZNOGO STROYA. DOGOVORNYYE OTNOSHENIYA MTS S KOLKHOZAMI. MOSKVA, 1954.

43 P. TABLES.

AT HEAD OF TITLE-PAGE: KOMMUNISTICHESKAYA PARTIYA SOVETSKOGO SOYUZA. VYSSHAYA PARTIYNAYA SHKOLA.

CHIPPING PARTE TO THE PROPERTY OF THE PARTE OF

ARTEM YEV, Tu.N., kandidat tekhnicheskikh nauk; ALEKSEYEV, I.A., inshener; ASTVATSATUROV, G.G., inshener; BISNOVATIY, S.I., inzhener; BONDAREN-KO, A.F., inzhener; GURAL'EIK, Ye.L., inzhener; GORBUHOV, M.F., inzhener; ZIATKOVSKIY, A.P., kandidat tekhnicheskikh nauk; KATTS, H.V., inshener, KITAYEV, A.S., inshener; KOZLOV, A.M., inzhener; LEONOV, P.T., inshener; LIVSHITS, L.G., kandidat tekhnicheskikh nauk; LIBERMAN, A.R., inshener; LINNIK, Ye.M., inzhener; LUKANOV, M.A., inzhener; MOROZOV, S.A., inshener; POGORELYY, I.P., kandidat tekhnicheskikh nauk; PETROV, S.A., kandidat tekhnicheskikh nauk; PYATETSKIY, B.G., inzhener; RABO-CHIY, L.G., kandidat tekhnicheskikh nauk; SELIVANOV, A.I., kandidat tekhnicheskikh nauk; FERBERG, B.S., kandidat tekhnicheskikh nauk; CHISTYAKOV, V.D., inshener; CHUNIKHIN, V.M., inshener; SHIRYAYEV, A.I., inshener; SHIRYAYEV, A.I., inshener; SHIRYAYEV, A.I., tekhnicheskiy redaktor.

[Handbook of equipment for repairing tractors and agricultural machine-ry] Sprayochnik po oborudovaniiu dlia remonta traktorov i sel'skokho-ry] Sprayochnik po oborudovanii sel'skokho-ry

(Tractors -- Repairing) (Agricultural machinery -- Maintenance and repair)

KORBUT, L.A.; BUYANOV, A.I.; SVIRSHCHEVSKIY [deceased]; KALASHNIKOV, P.A., redaktor; KUCHUMOV, P.S.; MAUMOV, V.I., redaktor; UDALOV, A.G., tekhnicheskiy redaktor.

[Organizational and technical specifications for tractor work in machine-traktor stations] Organizatsionno-tekhnicheskie pravila proisvodstva traktornykh rabot v mashinno-trakhtornykh stantsiiakh. Isd. 20e, perer. i dop. Moskva. Isd-vo Ministerstva sel'skogo khoziaistva SSSR, 1955. 336 p. (MLRA 914)

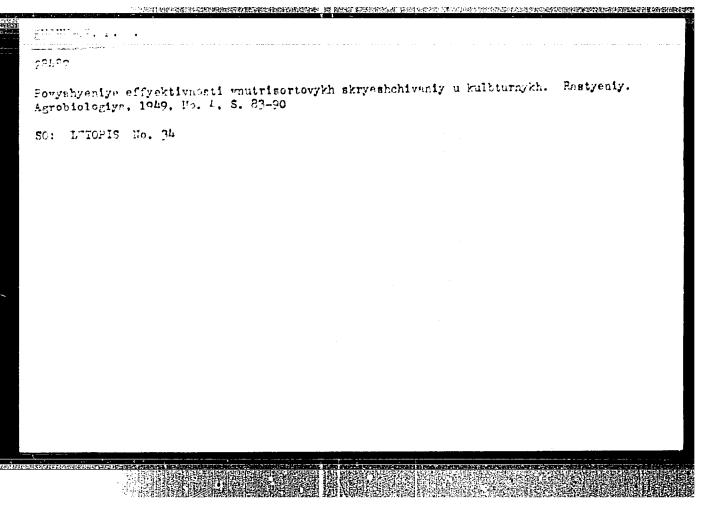
l.Russia (1923- U.S.S.R.) Glavnoye upravleniye mashinno-trakhtornykh stantsii i mekhanizatsii. 2. Zamestitel' ministra sel'skogo khosyaystva SSSR (for Kuchumov). (Machine-tractor stations)

VORONIN, B.G., redaktor; KCMAN, Ye.A., redaktor; KRYLOV, G.A., redaktor;
KUCHUMOV, P.S., redaktor; PIGHUGIN, H.P., redaktor; VOL'FOVSKAYA, D.N.,
redaktor; PESTRYAKOV, A.I., redaktor; VESKOVA, Ye.I.,
tekhnicheskly redaktor

[Over-all mechanization of agricultural production] Kompleksnaia
mekhanizateiia sel'skokhoziaistvennogo proisvodstva. Moskva,
Gos. izd-vo sel'khoz. lit-ry, 1956. 615 p. (MLRA 10:4)

(Ferm mechanization)

What collective and state farms expect in Trakt.i sel'khozmash. 31 no.8:1-4 Ag	from machinery manufacturers. 161. (MIRA 14:7)
l. Predsedatel' Vsesoyuznogo ob"yedineni "Soyuzsel'khoztekhnika". (Agricultural machinery	
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KUCHUKOV, P. V.; ZDRIL'KO, A. F.

Ukraine - Wheat

Varities of spring wheat for irrigation. Sel. i sem. 20, No. 3, 1953.

Monthly List of Russian Accessions, Library of Congress, June 1953. Unclassifi ed.

1.	KONONENKO,	B.M.;	KUCHUMOV,	P.V.
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- 2. USSR (600)
- 4. Corn (Maize)
- 7. Improving the quality of seed corn, B.M. Kononenko, P.V. Kuchumov, Sel. i sem. 20 no. 5, 1953.

9. Monthly List of Russian Accessions, Library of Congress, APRIL 1953, Uncl.

Name: KUCHUMOV, Petr Vasil'yevich

Dissertation: Selection of Spring wheat for the

Left Bank Ukraino

Degree: Doc Agr Sci

Affiliation: Inst of Genetics and Selection, Acad

Sci Ukssr

Defense Date, Place: 11 Jan 56, Council of All-Union Sci

Res Inst of Plant Cultivation

Certification Date: 13 Oct 56

Source: BMVO 6/57

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Country: USSR

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Category: Cultivated Plants. General Problems.

Abs Jour: RZhBiol., No 11, 1958, 48329

Author : Kuchunov, P.V.

Inst Title

: Method of Hybridization in Selection Hork.

Orig Pub: Selektsiya i semenovolstvo, 1956, No 4, 17-21

Abstract: This is a brief review of literature on the hybridi-

zation of plants.

Card : 1/1

M-5

USSR / General Biology. Genetics. Plant Genetics.

B-3

Abs Jour : Ref Zhur - Biol., No 14, 1958, No 61944

Authors

: Kuchumov, P. V.; Kovalevskaya, N. I.

Inst

: University of Khar'kov

Title

: Directed Raising of Spring Wheat Hybrides

Orig Pub

: V. sb.; Vopr. motodiki selektsii pshenitsy i kukurusy,

Khar'kov. Un-t, 1957, 63-71

Abstract

Experiments were carried out on raising hybrides of hard-shelled and bearded wheat in rich and poor conditions. As F₁ wheat was raised in rich conditions, traits of hard-shelled wheat (wider, unbending ears) were predominant, whereas when it was raised in poor conditions, bearded wheat characteristics prevailed (narrow, hrealable ears). In F₂, liberation of parent varieties was clearly noticeable. Here, 78.4 percent of new wheat forms belonged to the hard-shelled wheat variety type, if conditions were favorable. Yet, if raising

Card 1/2

KUCHUMOY P.V.

US\$R/Cultivated Plants. Grains.

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Abs Jour : Rof Zhur-Biol., No 15, 1950, 63005

Author : Kuchumov, P. V., Vatulya, Ye. Ye.

Inst : -

Title

: Winter Wheat of Gordeiform 46.

Orig Pub: Selektsiya i semenovodstvo, 1957, No 4, 39-41

Abstract: A description of a new variety which has just been submitted for state testing is given here.

This variety was obtained by inter-species hybridization of Tr. turgidum x Tr. diccount. The prospects are pointed out of using Tr. diccount as a paternal plant by crossing it with cultivated species. Goodefform 46 gave the highest yields in the irrigated regions of southern Ukraine, and in state testing it exceeded many hard wheat varieties in yields.

Card : 1/2

USER/Cultivited Plants. Garins.

Abs Jour : Rof Zhur-Biol., No 15, 1950, 68085

When tested in the southern oblast's of the USSR, it proved resistant to high temperatures; in Checkov and Eastern Kazakhstan oblast's, it yielded more than 40 centuers per hectore. — I. K. Zaikina

Card : 2/2

11

М

Country: USSR

Category: Cultivated Plants. Fodders.

Abs Jour: RZhBiol., No 11, 1958, No 48995

: Kuchumov, P.V.; K valevskaya, N.I. Author

: Ukrainian inst. of Plant Cultivation, Selection Inst

and Genetics.

: Sudan Grass and Sorghun-Sudan Grass Hybrid With Title

Irrigation

Orig Pub: Nauka i peredov. opyt v s. kh., 1957, No 7, 34

Abstract: Ukrainian Institute of Plant Growing, Selection

and of Conetics tried Sudan grass and Sorghum-Sudan Grass hybrid No. 5 in 1955 and in 1956 near Kherson. Hybrid No. 5 was obtained by crossing Sudan grass No. 876 with sugar sorghum Ranniy yantar'. In both

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M-91

CIA-RDP86-00513R000827110016-5" APPROVED FOR RELEASE: 06/19/2000

Country : USSR

Category: Cultivated Plants. Fodders.

:bs Jour: RZhBiol., No 11, 1958, No 48995

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years 3 nowings and aftermath were secured each year. The average yield of the green bulk of Sudan grass for two years with 3 mowings a year was 746 cwt/ha. The average hay yield was 172 cwt/ha. The average yield of hybrid No. 5 - 810 cwt/ha. of green bulk or 195 cwt/ha. of hay. --N.I. Popova

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VIASYUK, P.A., akademik, otv.red.; YUR'YEV, V.Ya., akademik, zam. otv. red.; EUZANOV, I.F., akademik, red.; DANILENKO, I.A., red.; DELCHE, L.N., doktor biolog.nauk, red.; KUCHUMOV, P.V., doktor sel'skokhoz.nauk, red.; POLYAKOV, I.M., red.; STRONA, I.G., kand.sel'skokhoz.nauk, red.; TKACHENKO, F.A., kand.sel'skokhoz. nauk, red.; CHIZHENKO, I.A., kand.ekonom.nauk, red.; LESOVICHENKO, Ya.V., red.; MANOYLO, Z.T., tekhn.red.

[Vegotables and potatoes; works of scientific session, No.2]
Ovoshchnye kul'tury i kartofel; trudy nauchnoi sessii, vypusk 2.
Kiev, Izd-vo Ukrainskoi Akad.sel'khoz.nauk, 1960. 132 p.
(MIRA 14:1)

1. Ukrainskiy ordena Lenina nauchno-issledovatel skiy institut rastoniyevodstva, selektsii i genetiki. 2. Chlen-korrespondent Vsesoyuznoy akademii sel skokhozyaystvennykh nauk imeni V.I.Lenina (for Denilenko). 3. Chlen-korrespondent AN USSR (for Strona). (Vegetable gardening) (Potatoes)

VLASYUK, P.A., akademik, otv.red.; YUR'YEV, V.Ya., akademik, zam.otv.red.;
BUZANOV, I.F., akademik, red.; DANILENKO, I.A., red.; DELONE,
L.N., doktor biolog.nauk, red.; KUCHUMOV, P.V., doktor sel'skokhoz.
nauk, red.; POLYAKOV, I.M., red.; STRONA, I.G., kand.sel'skokhoz.
nauk, red.; TKACHENKO, F.A., kand.sel'skokhoz.nauk, red.;
CHIZHENKO, I.A., kand.ekonom.nauk, red.; HLANINA, L.F., red.;
VIDCHYAK, A.P., khud.-tekhn.red.

[Problems in improving the quality of agricultural products; proceedings of the scientific session] Voprosy uluchsheniis kachestva sel'skokhoziaistvennoi produktsii; trudy nauchnoi sessii.

Kiev, Izd-vo Ukrainskoi Akad.sel'khoz.nauk. No.4. [Feeds and livestock products] Korma i produkty zhivotnovodstvs. 1960. 143 p.

(MIRA 14:1)

1. Ukrainskiy ordena Lenina nauchno-issledovatel'skiy institut
rasteniyevodstva, selektsii i genetiki. 2. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk imeni V.I.Lenina i
Ukrainskoy akademii sel'skokhozyaystvennykh nauk; Nauchno-issledovatel'skiy institut zhivotnovodstva Lesostepi i Poles'ys USSR (for
Danilenko). 3. Chlen-korrespondent AN USSR (for Polyakov).
4. Ukrainskiy ordena Lenina nauchno-issledovatel'skiy institut rasteniyevodstva, selektsii i genetiki (for Strona).
(Feeds) (Stock and stockbreeding)

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ACC NR: AP6028192

SOURCE CODE: UR/0032/66/032/006/0704/0707

AUTHOR: Korovin, Yu. I.; Kuchumov, V. A.; Pronin, I. S.

ORG: none

TITIE: Application of the atomic absorption method for determining chromium and niobium in aluminum-chromium-nickel alloys

SOURCE: Zavodskaya laboratoriya, v. 32, no. 6, 1966, 704-707

TOPIC TAGS: quantitative analysis, aluminum containing alloy, chromium containing alloy, nickel containing alloy, nicbium

ABSTRACT: Provious determinations have been made of the sensitivity of the determination of chromium, nickel, copper, and zinc in aqueous solution. Experiments have also shown that the sensitivity of the determination of these elements in an oxygen-hydrogen flame differs only slightly from data obtained in an air-acetylene flame. The sensitivity of the determination of these elements by the atomic absorption method can vary strongly as a function of the composition of the solution under investigation, as a result of a decrease in concentration, in the flame, of atoms capable of absorption. The present article reports an investigation of the effect of nickel, copper, and molybdenum on the determination of chromium, and of the effect of chromium, copper, and molybdenum on the determination of nickel in aluminum alloys.

Cord 1/2

UDC: 543.42

ACC NR: Ar6028192 It was found that the offect of chromium and nickel and the effect of copper and molybdenum are absent when they are contained in the alloy in amounts up to 2%. The mean quadratic error of a single determination of chromium and nickel, found from 25 measurements, was 4, 1.1, 1.9, and 2.7%, for concentrations of 0.05, 0.15, 0.5, and 1.0%, respectively. Thus, in the proposed fivefold measurement method, the mean quadratic error of the analysis for concentrations of approximately 0.05% was 2-3%, while for greater concentrations, it was equal to or less than 1%. Orig. art. has: 4 figures and 1 table. SUB CODS: 07, 11/ SUBM DATE: none/ ORIG REF: 001/ OTH REF: 005

Capting of iron rolls into a chili. Lit. proizv. no.11:40
N '64.

GUHRENKO, Ivan Mefodiyavich; KUCHUMOV, Yavganiy Vladimirovich; PAVLOVSKIY, 1.Ye., red.

[Automatic loudspeaker telephone using transistors] Gromko-govoriashchii telefor-avtomat na poluprovodnikakh. Lenin-grad, 1965. 48 p. (MIRA 18:7)

MODERNA, A.K.: IVANOVA, O.M.; KUCHUMOVA, A.N.

Some carbamide-containing complex thorium halices. Dekl. AN SISE 164 no.4:820-821 0 *65. (MIRA 18:10)

1. Thatitut obshekey i neorga: icheskoy khimit im. N.S. Kurnakova AN SSSR. Submitted March 24, 1965.

MOLODKIN, A. C., BALAKAYEVA, 2.4., RUCHIMOVA, A.N.

Thorrive amblophysphates, Sakh, AN SSSR 165 mc.51.734574 N 165.

An SSSR, Submitted April 26, 1965.

RODIONOV, V.M.; KUCHUMOVA, K.I., redaktor; KORUKEV, N.W. tekhnicheskiy redaktor.

[Collection of alighment charts for radio engineering] Sbornik nomogramm po radiotekhnike; Isd. 2-e, perer. i dop. Moskva, Isd-vo "Sovetskoe radio." 1955. 163 p., 112 nomograms. (MLRA 6:8)
(Radio circuits) (Nomography(Mathematics))

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RUCHUMETH, K \cdot \overline{E}

Call Nr: AF 1141777

AUTHOR:

Konev, Yu.I.

TITLE:

Transistors in Automatic Control Systems (Kristalli-

cheskiye triody v ustroystvakh avtomaticheskogo

upravleniya)

PUB.DATA:

Izdatel'stvo "Sovetskoye radio", Moscow, 1957, 160 pp.,

number of copies not given ORIG.AGENCY: None given

EDITORS:

Kuchumova, K.I.; Tech.Ed.: Shchukin, A.I.,

Koruzev, N.N.

PURPOSE:

The book is written for engineers working in the fields of electronics and electric automation and for students in advanced courses in electronics and radio engineering.

Card 1/7

Call Nr: AF 1141777

Transistors in Automatic Control Systems (Cont.)

COVERAGE:

The book presents the fundamentals and characteristic properties of the application of junction type transistors in amplifiers of automatic control systems. The operation of transistors in a-c emplifiers, in amplifiers of the average current and in phase-sensitive amplifying circuits is investigated. An engineering method of designing certain transistorized circuits is presented. The author mentions the names of Sotskov, B.S., Doctor of Tech.Sc., Fedotov, Ya.A. and Shchukin, A.I., as having given him several valuable observations. Several types of transistors of Soviet production are discussed in the text. There are 34 references, 19 of which are Soviet, 7 American and 8 translations into Russian.

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	Library of Congress	
7/7		

SUBBOTINA, G.V., kand.tekhn.nauk; TREFILOVA. I.S., kend.tekhn.nauk; ROZENBLAT, M.A., prof., doktor tekhn.nauk, red.; KUCHUMOVA, K.I., red.; EMUROV, B.V., tekhn.red.

[Hagnetic elements in automatic control, telemechanics, and computers; annotated list of literature for the year 1957]

Hagnitnye elementy avtomatiki, telemekhaniki i vychislitel noi tekhniki; annotirovannyi ukazatel literatury za 1957 god.

Honkva, Izd-vo "Sovetskoe radio." No.1. 1959. 68 p.

(MIRA 12:9)

(Electric engineering)

2014年1月10日,1915年11月1日,1915年11月1日,1916年11月1日,1916年11月1日,1916年11月1日,1916年11月1日,1916年11月1日日,1916年11月1日日 11月1日日 1

SYTINA, H.V.; KUCHUMOVA, K.I., red.; SMUROV, B.V., tekhn.red.

CITY OF THE PARTY OF THE PARTY

[Automatic control in the testing of electronic radio equipment; brief survey of foreign literature] Avtomatizatsiia ispytanii radioelektronnogo oborudovaniia; kratkii obsor sarubeshnoi pechati. Moskva, Izd-vo "Sovetskoe radio," 1959. 93 p. (MIRA 13:4)

(Automatic control)

(United States-Electronic equipment and supplies-Testing)

KONEY, Yu.I.; SOTSKIY, B.S., prof., doktor tekhn.neuk, retsenzent;
KUCHUMOVA, K.I., red.; SHCHUKIN, A.I., red.; SMUROV, B.V.,
tekhn.red.

[Application of transistors in automatic control] Poluprovodnikovye triody v avtomatika. Moskva, Izd-vo "Sovetskoe
radio," 1960. 446 p.
(HIRA 13:11)

(Transistors) (Automatic control)

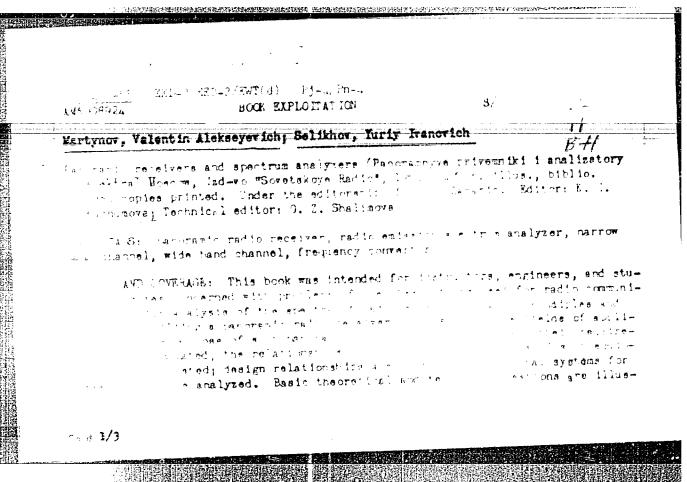
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DROZDOV, Yevgeniy Afanas'yevich; FYATIBRATOV, Aleksandr Petrovich; KUCHUMOVA, K.I., red.; BELYAYEVA, V.V., tekhn. red.

1

[Automatic conversion and coding of information] Avtomaticheskoe preobrazovanie i kodirovanie informatsii. Moskva, Sovetskoe radio, 1964. 543 p. (MIRA 17:3)

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trated on examples of existing apparatus. Recommendations are give a concerning the
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Literature - 405
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CONTER: 202

RODIONOV, V.M.; HENENSON, L.S., red.; KUCHUMOVA, K.I., red.

DE TAT PORT MODERNING TATE

[Transmission lines and superhigh frequency antennas; collection of nomograms] Linii peredachi i antenny sverkhvysokikh chastot; sbornik nomogramm. Moskva, Sovetskoe radio, 1965. 118 p. (MIRA 18:7)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000827110016-5"

SELENOV, Kons antin Alekanndrovich; EUCHUMOVA, K.I., red.

[Radio receiving and amplifying systems] Radiopriemaye
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646 p.

(MIRA 18:10)

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3 (7) AUTHORS:

Gal'perin, B. M., Kuchumova, L. S.

SOV/50-59-8-5/19

TITLE:

On the Influence of Cloudiness on the Radiation of the Atmosphere (O vliyanii oblachnosti na izlucheniye atmosfery)

PERIODICAL:

Meteorologiya i gidrologiya, 1959, Nr 8, pp 19 - 24 (USSR)

ABSTRACT:

A weak point in the climatological calculations of longwave radiation is the consideration of cloudiness. The consideration is done by the formulas $P_n = P_0(1 + Kn^\alpha)$ and $E_n = E_0(1 - Cn^\alpha)$. P_n is the radiation of the atmosphere, E_n the effective radiation of the black body (at the corresponding air temperature) in the presence of clouds, P_0 and E_0 the same values if there are no clouds, P_0 and P_0 and P_0 are the coefficients characterizing the influence of various clouds on the radiation of the atmosphere and the effective radiation. The values for K for clouds in different altitudes under any meteorological conditions are obtained here. As in the papers (Refs 5, 9, 13), the authors are also here of the opinion that physically and methodically the introduction of a correction for the cloud-

iness with respect to the radiation of the atmosphere is more

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On the Influence of Cloudiness on the Radiation of SOV/50-59-8-5/19 the Atmosphere

justified than one with respect to the effective radiation. For this purpose, the radiation of the atmosphere in a cloudless sky (P_n) and with full cloudiness (P_n) were computed on the levels of 0.5, 1.0, 2.0 and 4.0 km in 23 points of different areas on the eastern and western hemispheres from 21 to 78° northern latitude after computing the aeroclimatic data of the vertical distribution of temperature, air moisture and atmospheric pressure. The computations were carried out according to the radiation diagram by F. N. Shekhter (Ref 10) by the method described in the paper (Ref 2). The students of the LCMI V. M. Artem'yeva, T. A. Belik, N. S. Nakhamchina et al. took part in these time-consuming investigations. In the computation of P it was assumed that the continuous cloud cover in all mentioned altitudes radiates like a black body. K was computed $\frac{P_n - P_o}{P}$ for the 4 levels mentioned. These coefficients do not characterize the absolute but the relative influence of the cloud cover on the radiation of the atmosphere. The computa-

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On the Influence of Cloudiness on the Radiation of SOV/50-59-8-5/19 the Atmosphere

tions showed that everywhere and in all altitudes an annual course of K with a maximum in winter and a minimum in summer can be observed; from summer until winter, K can sometimes increase by more than double its value. In no season, however, is there a clear dependence of the coefficient K on latitude. The results put forward here show that the use of the mean annual values, or even the mean seasonal values, of K in the computation of atmospheric radiation in the single months can lead, in various climatic regions, to big errors in the determination of the longwave radiation gain. The diagrams show the dependence of the difference Pn - Po on the effective absorbing atmospheric mass (M) at different temperatures (t) of the cloud layer, the dependence of the coefficient K_1 (at a cloud height of 1 km) on M, the dependence of the coefficient K_1 on the temperature T_1 at the base of cloud, and the dependence of K_1 on the air moisture near the ground e_0 . Table 1 shows the K-values (in %) taken from the correlation curves for the 4 levels mentioned

Card 3/4

On the Influence of Cloudiness on the Radiation of SOV/50-53-8-5/13 the Atmosphere

at different e₀. These data can be used to obtain the mean K-values according to the known mean monthly air moisture. There are 6 figures, 1 table, and 14 references, 12 of which are Soviet.

Card 4/4

Enchances, N. A. "On the activity of all from chloride toris of account of to maintenessally," Enach, byullates' lenters, see, un-taile, distances, Nr. 32, 1767, p. 32-23

So: U-193%, 29 vet 13, (Letepis 'element 'myld, States', 'o. 1', 19%)

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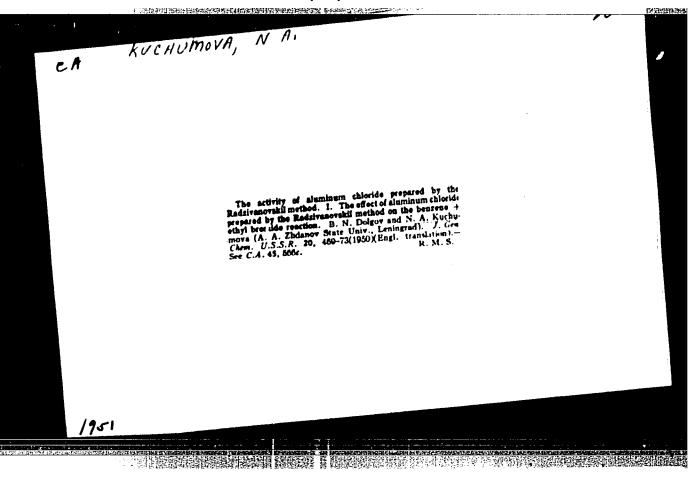
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THE ACTIVITY OF ALUMINUM CHLORIDE PREPARED by THE METHOD OF RADIV/MOVERITY.

I. ACTIV OF ALUMINUM CHLORIDE PREPAR "ACCORDING TO RADIV/MOVERITY IN THE REACTION OF PROVINE WITH STHYL PROMIDE. B. S. Dolgov and B. A. Ruchusovr (A. A. Zhdamov State Univ., Leningrad). Thur. Obshehely Khim. (J. Gen. Chem.)

20. 445-6(1950)...-AlCl3 prepd. according to Radriv/movekil [Fer. 28, 1135-61950] from Al and HCl is an active Freedel-Crafts catalyst. In the C.H. MBBr reaction with 75 catalyst a 735 gield of Etph is attained at 10-12°. C.H. (200 g.) and 4 g. Al shrvings treated with dry EC1 until a brown conting covered the crtalyst, then with 1 0 g. EtBr. and let stand 48 hrs. at 10-12°, followed by refluxing "hrc., give 735 Etph, b. 132-4°, d. 0.8703, n. 1.4900, 1/-185 EtgC. H., mostly the m-isomer with a twace of p-isomer gepd. according to Vosvinkel. Her. 22. 31t (1869)], and 2.55 1.3.5-Xt. C.H., b. 212-14°. Hitration of Etph (25 g.) by adim. in 4 hrs. to 70.5 g. HMO, (d. 1.5) am 27 g. Hiso. (d. 1186) in the cold, followed by heating to 135°, give meinly the 2-nitro deriv., b. 274-7°, d. 0.8605, n. 1.4:90. Similarly m-EtgC. H.gave the 2, 4, 6-trinitro deriv., m. 67-3°, while EtgC. H.gavilded the 2, 4,6-trinitro deriv., m. 108°. Some 25 of higher alkylate was obtained. Increase of the dight deriv. to 105 and a rise of the tri-Et deriv. to 8-10°. The yield was unchanged in 4.5-15.0 hr. residing periods with dry HCl in the inital step, but the condensation reaction reaction periods with dry HCl in the inital step, but the condensation reaction reaction periods with dry HCl in the inital step, but the condensation reaction reaction periods with dry HCl in the inital step, but the condensation reaction reaction reaction periods with dry HCl in the inital step, but the condensation reaction reaction reaction periods with dry HCl in the inital step, but the condensation reaction re

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ARTYUKHOVA, N.N.; BREMER, L.F.; GRIGORENKO, A.S.; IFATOVA, M.S.;

KARHYSHEVA, T.D.; KOZLOV, V.M. · KOLYSHEVA, L.I.;

KUCHUMOVA, N.A.; MAKAROVA, M Ye.; PUCHKOVA, N.A.;

SEKIRINA, Ye.T.; SOKOLOVA, T.S.; STATIYEVA, V.F.;

TYUNYAYEVA, V.V.; KHRAMTSOVA, A.A.; CHURAYEVA, V.V.;

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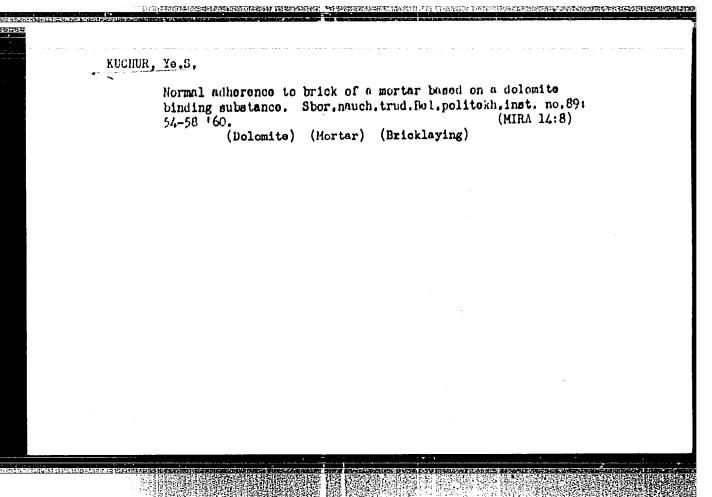
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DLC: HE7.Z5

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BENESHBVIGH, I.I. (cratimus) Corr

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inzhener, redsktor; OfficalOV, V.H., professor, redsctor; DIBCHOV, H.I.,
inzhener, redsktor; OfficalOV, V.H., professor, redsctor; DIBCHOV, H.I.,
inzhener, redsktor; OfficalOV, V.H., professor, redsctor; DIBCHOV, H.I.,
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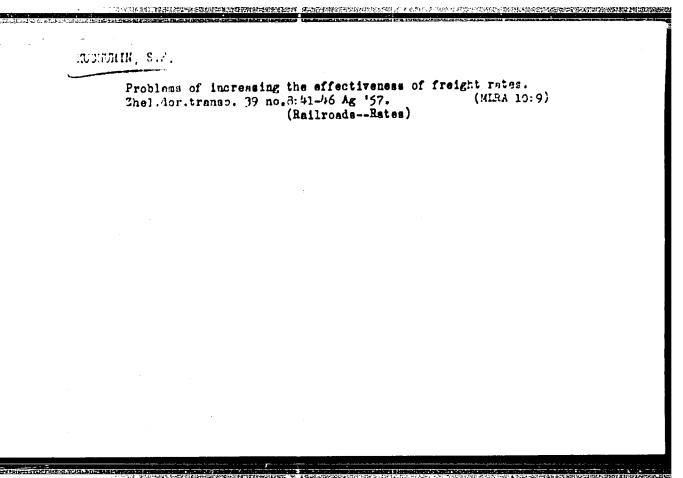
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I.Ye., inzh.; RAYKHER, G.Kh.; inzh.; TRUBACHEV, T.Ye., inzh.; TYVAN—

CHUK, D.F., inzh.; WHELITA, V.K., kaizl. ekon. nauk; KHCKHICV, N.F., dots.

kand. ekon. nauk; CHUDOV, A.S., prof., doktor ekon. nauk; ERLIKH, V.S.,

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I.I., prepodavatel; PAVLOVSKAYA, T.M., prepodavatel; OZEROVA,

A.G., red.; SHCHKHBAKOVA, G.V., red.; VLADIHIRTSEV, V.P., red.

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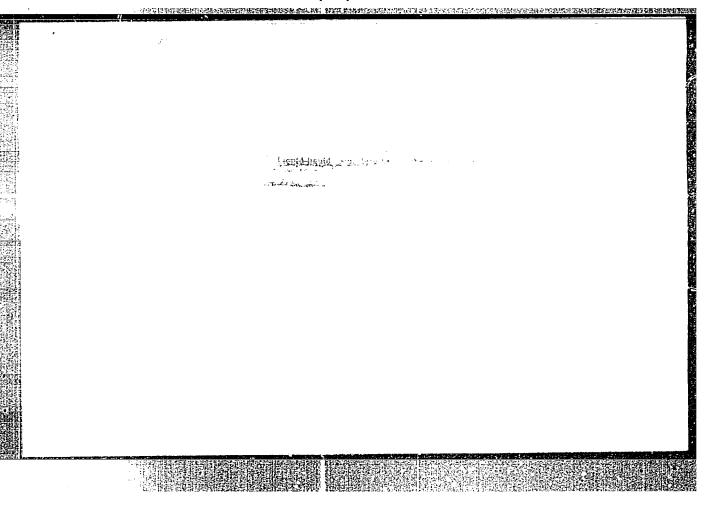
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KORENYAKO, A.I.; KUCHYEVA, A.G.; SKRYABIN, G.K.; HEKHTEHEVA, M.N.; HIKITINA, H.I.; ARTAMONOVA, O.I.

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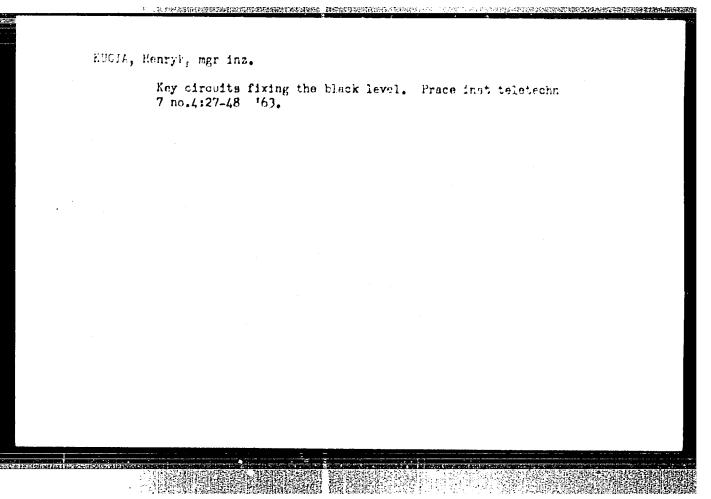
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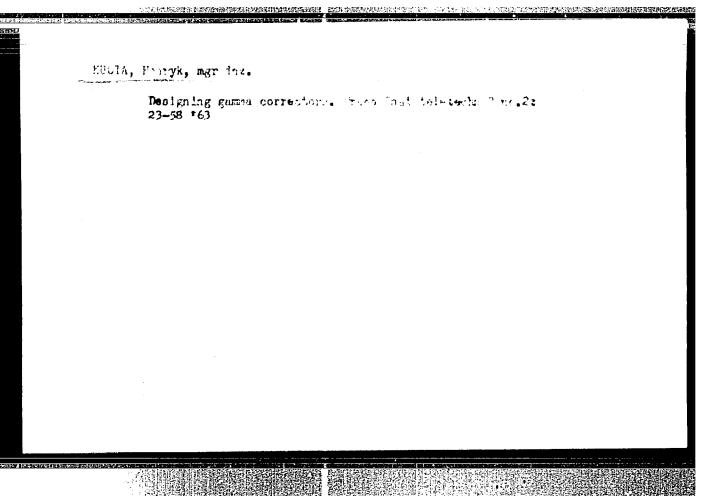
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KUCHYNKA, V.; HAJEK

Standardization. Vodni hosp 13 no.7:3 of cover '63.





18(5)

AUTHORS:

POL/39-59-7/8-7/24 Kucia, K., Kurek, M., and Kwiatkowski, S., Engineers

TITLE:

Fracture Tests and Their Usefulness in Evaluating the

Quality of Boiler Plates

PERIODICAL:

Hutnik, 1959, Nr 7-8, pp 296-301 (FOL)

ABSTRACT:

Increasing demand for boiler plates with ever better properties have forced producers to turn out plates of increasingly better quality. The purpose of the present article is to discuss some of the modern methods of boiler plate quality control. According to Soviet and Polish specifications, tests for resistance to fracture of boiler plates are made in the following way: a sample twice as wide as it is thick for plates up to 30 mm and one and a half times as wide as it is thick for plates above 30 mm, is broken in order to establish the degree of destratification or decoherence. Samples are taken at both ends, perpendicularly to the direction of rolling. According to these norms, a decoherence of up to 10 mm may be al-

lowed at the point of fracture. Yet this method is

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not a particularly efficient one. There is also the ultrasonic method, but it has been found that it is not able to detect all cases of destratification. It was found in fact that two types of destratification exist: real and potential. The first one consists of discontinuity in a rolled product and may easily be detected by the ultrasonic method. The second variety appears when the sample is fractured and then only near its surface. This is the more interesting and dangerous type. The tensions which arise in a plate sample during fracture are : llustrated in figure 1. The important point is that real decoherence is often due to metal impurities but potential decoherence is rather due to metal fatigue and is much more difficult to detect. It is important therefore to distinguish between these two phenomena. The author then proceeds to recount experiments designed to discover these phenomena by metallographic analysis and to determine the effect of thermal treatment on

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Fracture Tests and Their Usefulness in Evaluating the Quality of Boiler Plates

the appearance of the fracture. Tests were made on plate samples tested previously by the ultrasonic method and showing a tendency towards potential destratification. Figures 2-9 show the state of various samples during these tests. It was found that the degree of potential decoherence depends on the degree of stratification of the plate's structure, on temperature and on the speed of fracture. All factors favoring the sample's brittleness tend to decrease the extent of potential decoherence or to do away with it altogether. Stratification and hence potential decoherence may be removed by homogenization (at 1,150°C) and normalization (at 920°C). But the application of these processes simultaneously with mass production is very difficult. The above tests showed further that the stratified structure of boiler plates does not affect welding properties adversely, nor does it depreciate the mechanical properties of the plates. The same may be said of the phenomenon of potential

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3.16.20世纪《北京中华记录》,19.20年19.10年

POL/39-59-7/8-7/24

Fracture Tests and Their Usefulness in Evaluating the Quality of Boiler Plates

decoherence. It is important to note that the author considers fracture tests inadequate in determining plate quality since these tests are made with samples taken at random and the fracture itself causes the appearance of further potential decoherence during breaking. According to the author, the proper method of testing the quality of boiler plates is the ultrasonic method. Finally, the author considers it imperative that all efforts be made to re-examine rolling methods in order to decrease as much as possible the stratification of plate structure. There are 2 tables, 8 photographs, 1 diagram, and 1 references, 2 of which are Soviet and 2 Polich.

ASSOCIATION:

Huta Batory (Metallurgical Plant Patory) (Kucia and Kwiatkowski) IMZ (Institute of Ferrous Metallurgy) (Kurek)

Card 4/4

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000827110016-5"

POI/83-28-2-4/10

£5(1,5) AUTHOR: Kurek, M., Kucia, K., and Kwiatkowski, St., Engineers

TITLE:

The Application of Ultrasonic Methols in the Investiga-

tion of Plate Laminations

PERIODICAL:

Hutnik, 1959, Vol £6, Nr £, pp "2-"0 (Poland)

ABSTRACT:

The great number of laminations in boiler and shipbuilding plates leads to special methods of investigation. So
far test specimens (30 mm = 14" thick) with a notch of
5 mm were broken. During investigation, it was decided
that the sectional area test does not reveal any trend
for lamination in the plates; it only shows: a) laminafor lamination in the plates; it only shows: a) laminations already existent in the plates after rolling;
b) laminations arisen by breaking the test specimens
b) laminations arisen by breaking the test specimens
apart. The laminations described under b) have proved
less harmful than those under a). There are two methods
of ultra-sonic plate tests: 1) the filter method (more
easily adapted for automatic serial tests); 2) the tapping method (by tapping the plates with a feeler gadget).
In the Metallo-Physical Institute IME in Gliwice, a spe-

Card 1/3

POL/39-26-2-4/10

The Application of Ultrasonic Methods in the Investigation of Plate Laminations

THE REPORT OF THE PROPERTY OF

cial roll-feeler gadget was designed. Figures 1 and 2 show its methods of operation Failures up to 10 mm (2/5") Ø call for oscillations, above 10 mm they shift the amplitude to the left of the vertical line. The investigation results are described by the aid of oscillographic diagrams. Hot pourings with a temperature of more than 1630°C and cold pourings with less than 1600°C were tested. The results of the various pouring groups are compiled in Table 1/ It was determined that two skilled workers can easily test 15 plates in 8 hours by the ultra-sonic method. 1) The ultra-sonic method proved to be qualified for testing laminations in plates; 2) The results during investigation have not proved any dependence between the parameters of rolling laminations and the lamination formation in the plates; 3) Considerable dependence was established between the pouring operation and the lamination formation in the plates; 4) Especially good results were achieved with graphitized pourings; 5) The ultra-sonic method enables greater sav-

Card 2/3

The Application of Ultrasonic Methods in the Investigations of Plate Laminations

ings. There are 1 table, it photographs and : diagrams.

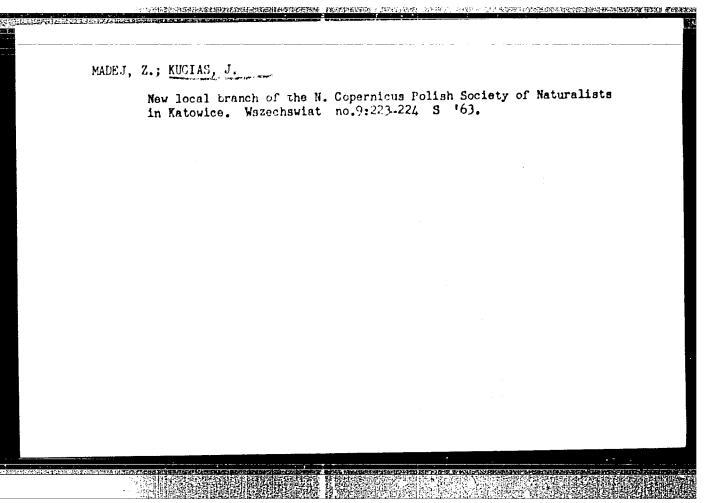
ASSOCIATION: Instytut metalurgia zelaza (Metallurgical Steel Institute); Huta Batory

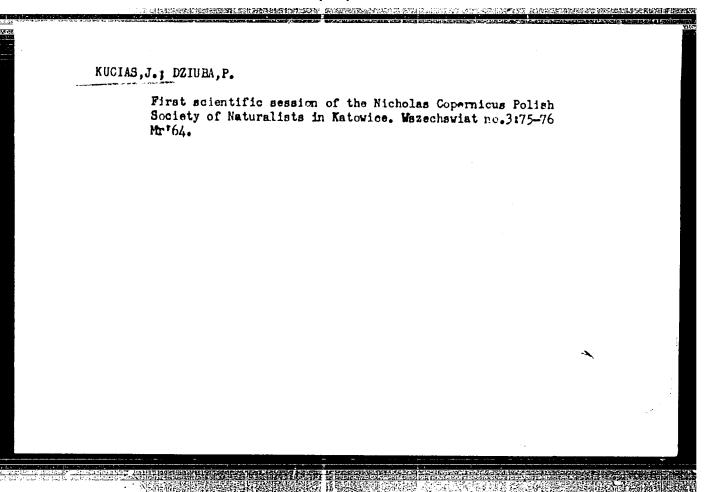
Card 3/3

DZIEMBALA, Henryk; KUCIARA, Boleslaw

New trends in designing coal hoppers. Koks 8 no.4:111-115 J1-Ag '63.

1. Koksoprojekt, Zabrze.





TA AT FOR THE BY STANDARD CONTROL OF THE STANDARD OF THE STAND

STRACHOV, Ivan Pavlovic [Strakhov, Ivan Pavlovich] doktor technickych ved; KUCIDI, D.A., inz.; BENES, Antonin [translator]

Use of methylol and methylated methylol derivatives of melamine for improvement of sole leather quality. Kozaratvi 14 no.8:232-236 Ag '64.

1. High Technological School of Light Industry, Moscow (for Strachov and Kucidi). 2. Research Institute of Leather Industry, Gottwaldov (for Benes).

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000827110016-5"

MICHIC, D.

System (D. Country); Given Hamed

Country: Yugoslavia

Accidente Degrees: / not given/

Accidente.: / not given/

Source: Belgrade, Veterinarski glasnik, No 6, 1961, pp 557-539.

Source: Twentieth Anniversary of the Revolutions A Youth in a Pew Lines.

Data: Twentieth Anniversary of the Revolutions A Youth in a Pew Lines.

KUCINSKI, H.

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Vol. 8, no. 5, May 1956
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Type FM 50 magnetic filter. p. 240.

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Fonthly List of East European Accessions (EGAI) LC, Vol. 2, no. 2, Feb. 1960. Uncl.

KUCINSKI, T.

"Neocene in Southern Poland and adjacent regions."

GEOLOGICKE PRACE; ZPRAVY, (Slovenska akademia vied, Geologicky ustav Dionyza Stura) Bratislave, Czechoslovakia, No. 15, 1959.

Monthly List of East European Accessions (EEAI), LC. Vol. 8, No. 8, August 1959.

DUCINSKI, Tadeusz

New data concerning the geology of the so-called Rzeszow Bay. Pt. 1. Kwartalnik geol 5 no.4:1000-1001 161.

1. Karpacka Stacja Terenowa, Instytut Geologiczny, Warszawa.

WVisiting Soviet astronomers." (p.174). RISE HVEZD. (Ceskoslovenska spolecnost astronomicka) Praha. Vol. 34, No. 8, Nov. 1953.

SO: East European Accessions List, Vol. 3, No. 8, Aug 1954.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000827110016-5"

RUCIALK. J.

SOV/51-5-2-7/26

AUTHOUS:

Burgova, M.P., Auchirak Ya. and Proskurina, L.

TITLE:

Anharmonicity as One of the Characteristics of Intermolecular Interaction (Angaraoaichnost' kak odna iz kharaktoristik

merbiamolakulyarnogo valiladeystviya)

PERIODICAL: Optica i Spectroskopiya, 1958, Vol 5, Nr 2, pp 141-146 (USSR)

ABSTRACT:

It was found (Refs 1, 2) that formation of intermolecular saturated bonds (hydrogen-type bonds) are accompanied by discrete changes of vibrational frequencies. This effect was explained by a new quasielastic constant of intermolecular interaction and a change in the quasiclastic constant of internal aclocalar binding which is The authors purpose was to whakened by association of molecules. find whother there might be a further sign of the presence of such intermolecular saturated bonds. They investigated how the vibrational spectrum changes on increase of anharmonicity of vibrations due to internolecular association. They measured infrared frequencies and invensities of valence vibrations of CH and OH in the region of the fundamental frequency and the two first harmonics. This was done for solutions of phonol, acetic acid and halogen derivatives of methane. The authors also used published data on the spectra of the OH group of slophols. The infrared absorption spectra were measured using a

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SOV/51-5-2-7/26

Anhanaphicity as One of the Characteristics of Intermolecular Interaction

Perkin-Elmor appetrophotometer 12 B with a LiF prism and a spectrophotometer with an echelette grating, prepared at the Physics Institute of the Leningrad State University. Errors in the frequency measurements did not exceed 3 cm and these in the intensity measurements were less than 10%. Figs 1-3 give the dipole moments of the hydrogen bonds of several substances as functions of the vibrational quantum number v. Figs 4-5 give the absorption appetra of chloroform and bromeform pure and in solution. From the frequencies and intensities of the infrared spectra mechanical and optical anharmonicities of the X-H groups, where X = 0 or C, were obtained. It was found that formation of hydrogen bonds produces characteristic changes in the optical anharmonicity. In the case of meak hydrogen bonds bends due to molecular association are absent in the harmonics but are present in the fundamental frequency of valence

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SOV/51-5-2-7/26

Anharmonicity as One of the Characteristics of Intermolecular Interaction

Vibrations. The results obtained supplement those reported by Mecke (Refs 4, 5). The authors thank V.I. Ghalanovskiy for advice. There are 5 figures, 1 table and 15 references, 3 of which are Soviet, 4 American, 2 Genuan, 1 Japanese, 2 English, 1 French, 1 Australian and 1 from an international journal.

ASSOCIATION: Leningradskiy gosidarstvennyy universitet, fizicheskiy instibit
(Physics Institute, Leningrad State University)

STELITED: July 10, 1957
1. Molecular association--Analysis 2. Cyclic compounds--Molecular
card 3/3 structure 3. Cyclic compounds--Spectrographic analysis 4. Spectrophotometers--Equipment 5. Infrared spectroscopy--Applications

"你们就对你就是我们是我的情况的的情况,我们就是我们的一个人,我们就是我们的一个人。""……"

PAPOUSEK, D.; KRUSINA, J.; KUCIREK, J.

Molecular complexes with hydrogen bonds. II. Stability and composition of some molecular complexes of alcohols and ethers. In German. (EEAI 9:5) Coll.Cz.Chem. 24 no.9:2967-2974 S 159.

1. Institut fur theoretische und physikalische Chemie, Haturwissenschaftliche Fakultat und Physikalischanalytisches Institut, Pharmazeutische Fakultat, Masarykuniversitat, Brno. (Hydrogen) (Alcohols) (Ethers)

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KUCIREK, J.; PAPOUSEK, D.
     Potential constants of molecules and the thermodynamic functions of
     Celly, GeFt, GeCly GeBry and GeJt. Coll Cz Chem 25 no.1:31-37 Ja *60.
      1. Physikalisch-analytisches Institut, Pharmazeutische Fakultat,
      und Institut fur theoretische und physikalische Chemie, Natur-
      wissenschaftliche Fakultat, Masaryk-Universitat, Brno.
            (Germanium hydrides)
            (Germanium fluoride)
            (Germanium chloride)
            (Germanium bromide)
            (Germanium iodides)
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